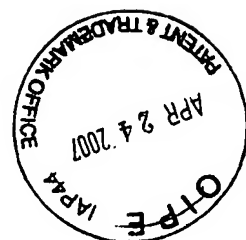


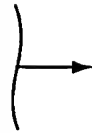
hTIR1 1 -MLCTARTVEIQLLISCOFAFACHSTES-----SPDILPGYVIAIGFPI-----SSCLOWRIR-----PMTILDRSCSINVEGIAIFQARILGVFEENSTAJRPNHIEGVOIMVDCSD--SANVYATIRVI 119  
 rTIR1 1 MLFWAHLILSOL--VYQVAFSCORTES-----SPESLSLPGILAGHSI-----GDCLOWRIR-----PMTILDRSCSINVEGIAIFQARILGVFEENSTAJRPNHIEGVOIMVDCSD--SANVYATIRVI 118  
 hTIR2 1 -GPRATYICSEFF--ELWLABP--AE-----NSDILPGDILGELFSI-----FANKGIVHNFLOVQVCK--EYEVKIVGIVNLOAMFPAVEI--ENDSSILPGVILGYEIVDVAVI--SNNVQVIMVEI 115  
 rTIR2 1 -GPOQNTLCULSI--LJHVLPRKQIVE-----NSDILGAGDYLGGIRI-----FANKVSTSLSYLOARFON--EFTMKVIGALNLOAMFPAVEI--ENDSSILPGVILGYEIVDVAVI--SNNVQVIMVEI 118  
 hTIR3 1 ---MLGPVAVIGISWALHPGTGAPLOIS-----QOLRMKQVIMIGCFPIGCEAFEGCLESSTRSSVAT---RSSQQLNALAMKAVVEEINAKSDILPCLGMDHIT--CSEPWAMKESIMVEI 117  
 rTIR3 1 ---MPGLAILGISAAHLELCMGSSLOIS-----QOLKACQVILGGLPICTTEHTLNQTONGIICT---RSEPLGLAMKAVVEEINAKSDILPCLGMDHIT--CSEPWAMKESIMVEI 117  
 mGluR1 1 MYRLLIFFPMIFEMSILPRMPDRKVLACASSORQVARMDCQVITGLLSVTHOPPEKYPE-----RQCG--EIREQIGIQORVEAHEHTLDKLANADPMILHPNIEILGSETRLSQWHSVALEQSTEEI 123  
  
 hTIR1 120 SLPC-----QHHEIIOGILLHVSF-----TIVAVIGPISINRPAFTAMISFETIMASVASSSTISVROQPSFIRI--FANKVOYETIMVILLOVEGNIHSLVSSSDYICOLGVOALENOITGO--G 236  
 rTIR1 119 ALQC-----PREHICOMELRNHSS-----KAVAVIGDNDIDHMTVALIGFELNLSVDSWVLSAKNESELRKIVPSRHOVENWVOLLQSEGVWVLSLISYCYICOLGVOALEEIAVR--G 235  
 hTIR2 116 AHE-----DNLPHQDHSNLS-----RVAVIGDNDSSVILVAVELSL--EIDPOIIVSAISDEIRVRFALLR--RIPS--DHVEAMVQIMLHFRAMHITVMSDDYGRNGCIIIGERVAB--D 231  
 rTIR2 119 AOD-----DILLPHLADYSOMP-----RVAVIGDNDSSVILVAVELSL--EIDPOIIVSAISDEIRVRFALLR--RIPS--DHVEAMVQIMLHFRAMHITVMSDDYGRNGCIIIGERVAB--D 235  
 hTIR3 118 AKAG-----SRDIAAYCNYVOYOP-----RVAVIGPSSSLIAYICKFESFETIMPOVS--GNSVELLSARETESFETVPSRVLITAAALLOEGNEVWALCSDDYEGCQCLSTESALAM--G 234  
 rTIR3 118 AKVG-----SOSTAAYCNYVOYOP-----RVAVIGPSSSLIAYICKFESFETIMPOVS--GNSVELLSARETESFETVPSRVLITAAALLOEGNEVWALCSDDYEGCQCLSTESALAM--G 234  
 mGluR1 124 RDSLISRDEKQCNRLPDGQTLPEGRKKPKTAGVIGFSSSVAIQONLOJLIDEQVILSAISLISLSDNTLYAKELHFWESUTLOARMLDIVKRYNTVWVAHTEGNI--GSEMDHFEKELIAOE--G 232  
  
 hTIR1 237 ICIAFQDILMPSAIVG---DER--MCLMBHIAQ---ACQVIAVAFSSROLARMEETSM--NLTG--KAVVA--SEAMVLSHITGVGEGIORIQVIGVIAKRAVPLKAFAYAR---ADKVARPCBK 354  
 rTIR1 236 LQMAKQILUFSARVG---DER--MCSMOLIAQ---ARTVIAVAFSSRHLARMEETSM--NLTG--KAVVA--SEAMVLSHITGVGEGIORIQVIGVIAKRAVPLKAFAYAR---ADKVARPCBK 354  
 hTIR2 232 ICIAQETITLQPNQMTSEERLTVIVKLOO---SHARVAVAFSPDLTITHEHEMILKONFICVAVATH--SESAVDPVLHMTLGHILGILGILITQSVPTIGSEFHEMGPO---AGHPPLSRSTQ 353  
 rTIR2 236 ICIAQDEVILPESQVMRSEEDROLNITDKLR---TSARVAVAFSPDLTITHEHEMILKONFICVAVATH--SESAVDPVLHMTLGHILGILGILITQSVPTIGSEFHEMGPO---AGHPPLSRSTQ 355  
 hTIR3 235 ICIAEGIVLPRADD---SRUGKVDVILHOVNO---SSVQWILIFASVHAHAFNYSTSSRISSEKAVVA--SEMLTSDIMGIPQMAQMGVAGFLORGQOLHEPOMVKTHLA---IATDPAFCSALG 359  
 rTIR3 235 ICIAEGIVLPRADD---SRUGKVDVILHOVNO---SSVQWILIFASVHAHAFNYSTSSRISSEKAVVA--SEMLTSDIMGIPQMAQMGVAGFLORGQOLHEPOMVKTHLA---IATDPAFCSALG 355  
 mGluR1 253 LQIAHQKIYSNAGEK-----SFDRLKRIKIRERLPKRVVACFCEGMTVQCLSAMPELGVVGEFSLGSGGHHDDDEMIEGVFEANGGIT--IKLISPEVRSDDIFLKLRLDTNTRN--LPEFWQ 373  
  
 hTIR1 355 G-----SWQSSNLOREFOAFMAHTMPKAFS-----MSSHVNARVAVAVAHGHILQIGOA-----SCAOSR--GRVYPAQIILQOITKVIHL--FHKVIAFNDNRPLSSNITITANDVACPKW--TITVL 466  
 rTIR1 354 G-----SWQSTNLORECHETITRMPKAFS-----MSSHVNARVAVAVAHGHILQIGOT-----SEIQSR--GVYPAQIILQOITKVIHL--FHKVIAFNDNRPLSSNITITANDVACPKW--TITVL 466  
 hTIR2 356 S-----YTC--NODQVCLNATISFNTITRISG-----ERWISVSAVAVAHAAHLSLIGOD-----SIOTK--RVAVPAQIILQOITKVIHL--FHKVIAFNDNRPLSSNITITANDVACPKW--TITVL 465  
 rTIR2 360 R-----TTC--NODQVCLNATISFNTITRISG-----ERWISVSAVAVAHAAHLSLIGOD-----SIOTK--RVAVPAQIILQOITKVIHL--FHKVIAFNDNRPLSSNITITANDVACPKW--TITVL 465  
 hTIR3 356 EREGLEEDVVGQPOQDCILQONVSAGLN-----HHDTFSVAAVSAVQAQIINTILQON-----ASQPAQIIPKPMOIHENMNLTH--VCGILPRTSSSNTIMVILKIMVQCSVP--RLHM 469  
 rTIR3 355 -AELDLEERVWGPPQSQDYIMQNLSSGIMONLSAGOLHEQILFATVAVAVSAQIINTILQON-----VSHCHTSEPMQPMOIHENMNLTH--VCGILPRTSSSNTIMVILKIMVQCSVP--RLHM 471  
 mGluR1 374 HR-----FQCLPLPGHILNVPKVKVCTGNESEENYVQ---DSVNGCFMVAITAVAHGHILQMHALCPGHVGLQDANKHIDGRKLLDFLKSSEVGVSEEMVELEKCAPGR--EDINILQYTEANRYDYVW 478

TO FIG. 1B

FIG. 1A



FROM FIG. 1A



hTIR1 467 GSSTWSPVQININETKLOWHEDKDAVVPKGVSSDCTEGHOR-WLGHHCOCFCAPOCGGFIA-KSLYRCOPCEKEEMAFESQCTPRMVAALRHTSAVIAAANTITIEATLIGTAGIAFAWHLDT 594  
 rTIR1 466 GSASLSPVHLINKTLOWHEDKDAVVPKGVSSDCTEGHOR-WLGHHCOCFCAPOCGGFIA-MSELHIPOKCTEEWAKESSTICPTMFAAHEHTISAVITPANTLIEALLVGTACIAFAWHLDT 593  
 hTIR2 466 ASVYPLQRIKN-IQDISMHIWNTIEMSKRCSGCK-KVGLVCCOCHDIDLPCHINHTEDVECONPNNEVSTOSEISCTKOLVLEHEDAPLAVADIAAGELISIAIMVETPFOI 593  
 rTIR2 470 ASVSPTSKRTY-INNVSMHIWNTIEMSKRCSGCK-KVGLVCCOCHDIDLPCHINHTEDVECONPNNEVSTOSEISCTKOLVLEHEDAPLAVADIAAGELISIAIMVETPFOI 597  
 hTIR3 472 GRN-GSLRTER--IKTHHSIDADQPAVSRCSGCGOVR-RVKGHSICQYDAVDXGSGRO-NPDDIADCTEGODENSTSTRCERRSRELAWCGPAMIIHILISATGIMTAAGSLGVETPFRDS 596  
 rTIR3 479 GTN-GTLOLOH--SNMYPG--ADVEPASCSROCKGOVR-RVKGHSICQYDAVDXGSGRK-HPDHFIETPCCKDQSEKSGHOTPRPKELAWCEBAMISLILICIMGLIHANGLGVETPFRDS 601  
 mGluR1 498 GTWH--EGVLDYDKLEQNK--SGMVRSVCSFELKGOIKVIRKGVSCOMIQTAKEENEVQ---DEFTQRAQDLGMVPAELTGOETPRVLENDIESIATAFESQIGIMLEFVTHIELYNDI 620  
  
 hTIR1 595 PAVRSAGRUCATLMISIAAGSLVGEFFCPETRPACTIRKQALHATGFIHIFSCIVASFOILITIEFESTRVPFTTHAMVQFHGAGLEVM-TSSAACILITOTLWLMWTPAPA-RPVORPHIMVECTE 722  
 rTIR1 594 PAVRSAGRUCATLMISIAAGSLVGEFFCPETRPACTIRKQALHATGFIHIFSCIVASFOILITIEFESTRVPFTTHAMVQFHGAGLEVM-VSSVTHILITOTLWLMWTPAPT-REVRPHIMVECTE 721  
 hTIR2 594 PIVRSAGCPVCELMITILLVAYMVPVACHPRKSTICIGQALFPIQFHIQISIAVRSFOVCAHMASRPRASVMAVOCPPWSA-FIVLKWUEBAMICMIATGLSPTRITTEDDKITINSNAP 722  
 rTIR2 598 PIVRSAGCPVCELMITILLVAYMVPVACHPRKSTICIGQALFPIQFHIQISIAVRSFOVCAHMASRPRASVMAVOCPPWSA-FIVLKWUEBAMICMIATGLSPTRITTEDDKITINSNAP 726  
 hTIR3 597 FIVQASGHIACFQVQELVNCISLITPQSPARCIAQPISHIPGCSITILEQAAEIEVESELPLSWADRLSGCUGPMAWIMWL-LAMIMEVALOTWIEVAPPEVV-TDWHMUTPEALVHCRT 724  
 rTIR3 602 FIVQASGHIACFQVQELVNCISLITPQSPARCIAQPISHIPGCSITILEQAAEIEVESELPLSWANWLCYLLGPPMAWIMWL-LAMIMEVALOTWIEVAPPEVV-TDWHMUTPEALVHCRT 729  
 mGluR1 621 PAVKSSRELQVLIITAGIELGVKCPETLAKETITTSOILQRLINGLSSAMQVSNLVTKTNRTARTIAGSKKICITRKPRFMSAMQVLTIRSLISVQITLAVTILIMEPPMET-LSSEPSIK-EMVITQNT 748  
  
 hTIR1 723 TNSIGHIAFLNGLISIAFACSLICQDLPENNEAKQVRESLLENVSWPAETITASMDQMLPANNWAGISLSSGGGGELPKQVHICRPDINSTPFOASTODVTRCGST----- 841  
 rTIR1 722 VNSGELIAFLNGLISIAFACSLICQDLPENNEAKQVRESLLENVSWPAETITASMDQMLPANNWAGISLSSGGGGELPKQVHICRPDINSTPFOASTODVTRCGST----- 840  
 hTIR2 723 NVRNHIFNTSIDILLISVQESFAVWGKEAPVWNEAKHETITSTVEYFSSVSLQTFMSMSVMTIIMDLITVNTNLIATISIGVFGPKCMILTYPERNTPAYENSMIOGTMRD----- 839  
 rTIR2 727 NVRNHIFNTSIDILLISVQESFAVWGKEAPVWNEAKHETITSTVEYFSSVSLQTFMSMSVMTIIMDLITVNTNLIATISIGVFGPKCMILTYPERNTPAYENSMIOGTMRD----- 843  
 hTIR3 725 RSWSGHIAHATATATLGLTPIVRSQGRVAPARCITENAVATIMSVAVELLANVQMLNPAPVQALICVGLIATAFHIDRCILMROPELNVTPHFLGGGPDAGQONDGN-TGNOCKHE 852  
 rTIR3 730 RSWSGHIAHATATATLGLTPIVRSQGRVAPARCITENAVATIMSVAVELLANVQMLNPAPVQALICVGLIATAFHIDRCILMROPELNVTPHFLGGGPDAGQONDGN-TGNOCKHE 858  
 mGluR1 749 SN-LGVVAPVGNGLIDMSITVYAKKTRNVNPAFNEAKYIATHTVITQILIMLEAIVTSGSN--MKILITCTCAVSLSVTVVALGCEITPVMVITIAKPERN----- 845

FIG. 1B